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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS
AND INTERFERENCES

Application Number: 10/824,064
Filing Date: April 14, 2004
Appellant(s): DETTINGER ET AL.

Gero G. McClellan
For Appellant

EXAMINER'S ANSWER

This is in response to the appeal brief filed 1/14/08 appealing from the Office action

mailed 3/21/07.

(1) Real Party in Interest

A statement identifying by name the real party in interest is contained in the brief.

(2) Related Appeals and Interferences

The examiner is not aware of any related appeals, interferences, or judicial proceedings which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

(3) Status of Claims

The statement of the status of claims contained in the brief is correct.

(4) Status of Amendments After Final

The appellant's statement of the status of amendments after final rejection contained in the brief is correct.

(5) Summary of Claimed Subject Matter

The summary of claimed subject matter contained in the brief is correct.

(6) Grounds of Rejection to be Reviewed on Appeal

The appellant's statement of the grounds of rejection to be reviewed on appeal is correct.

(7) Claims Appendix

The copy of the appealed claims contained in the Appendix to the brief is correct.

(8) Evidence Relied Upon

20020038320   Brook   3-2002

(9) Grounds of Rejection

The following ground(s) of rejection are applicable to the appealed claims:

Claims Rejection – 35 U.S.C. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Brook (U.S. Patent Application Publication, published March 28, 2002).

Regarding **independent claim 1**, Brook teaches:

A method of testing content, comprising:

parsing, by a parser, two or more documents in tandem on an element-by-

element basis, whereby the elements of each of the documents are sequentially

parsed;

upon parsing each of the respective sequential elements in a first

document of the two or more documents and each of the other documents,

comparing the respective parsed elements to one another; and

on the basis of the comparison, determining whether the documents are at

least equivalent.

(Brook teaches parsing two or more documents by elements and creating hash tables of the parsed elements for efficient comparisons. The hash tables are taught as a further step in parsing by elements for comparisons, and is taught as being preferable to a direct comparison by elements, however, the direct comparison is also taught as the inefficient method. See, Brook, paragraphs [0002] and [0206]-0225].

Brook teaches parsing and comparison for purposes of comparison and validation, which is determining whether the documents are at least equivalent. See, Brook, paragraph [0236].

Brook does not expressly teach parsing two more documents "in tandem on an element-by-element basis, whereby the elements of each of the documents are sequentially parsed." Brook does teach parsing two documents element by element and comparing the documents for validation. See, Brook, paragraphs [0060]-[0069]. Brook also teaches use of the invention as an "event-based parser," which parses a document element by element, rather than in its entirety first. It would have been obvious to one or ordinary skill in the art at the time of the invention to read Brook as teaching that one could parse two or more documents for validation in an event-type process whereby the two documents could be understood as being sequentially parsed, or "in tandem.")

Regarding **dependent claim 2**, Brook teaches:

> *The method of claim 1, wherein each of the other documents is a current*
>
> *response from an application responding to a submitted request and the first*

document is a control document retrieved from storage and previously returned

from the application in response to the request.

(Claim 2 incorporates substantially similar subject matter as claimed in claim 1 and, in

further view of the following is rejected along the same rationale.

Brook teaches a control document retrieved from storage as a "validation

reference document (VRD)." See, Brook, paragraphs [0014]-[0023].

The characterizations of the first document being a "response from an application

responding to a submitted request" and the control document being "previously returned

from the application in response to the request" are read as non-function descriptive

language. The claimed invention of comparing documents element by element does

not change depending on the identification of the documents.)

Regarding **dependent claim 3**, Brook teaches:

The method of claim 1, wherein the parser is a SAX parser.

(See, Brook, figures 2(a), 2(b), 3(a), 3(b), and 3(c), and paragraphs [0005], [0209], and

[0226], teaching use of a SAX parser.)

Regarding **dependent claim 4**, Brook teaches:

The method of claim 1, further comprising, upon determining that the

documents are not equivalent, issuing a user warning.

(Brook teaches the invention of claim 1, but does not expressly teach that if the

documents are not equivalent, issuing a user warning.

Brook teaches comparing the documents on an element by element bases for

purposes of validating and error checking. See, Brook, paragraphs [0234]-[0238]. It

would have been obvious to one of ordinary skill in the art at the time of the invention to

have included as warning to the user if the validation or error checking found that the

documents were not equivalent, or, in other words, if the comparison found a validation

or an error in the documents, for the obvious and beneficial purpose of notifying the

user so that the error may be corrected.)

Regarding **dependent claim 5**, Brook teaches:

> *The method of claim 1, further comprising, disregarding, for purposes of*
>
> *the comparing, elements of at least one of the documents identified by*
>
> *predefined attributes identifiable by the parser.*

(It is noted that other than the appearance of the limitation in two claims, the term

"disregarding" is not found to be discussed in the specification. The Examiner believes

that the Appellants intended the limitation of "disregarding, for purposes of comparing,

elements of at least one of the documents" to specify that not all elements of the two

documents had to match in order to be found to be "equivalent," and the limitation will

be so read for the remainder of this Office Action.

See, Brook, paragraphs [0179]-[0183], teaching to disregard all but the most

deeply nested syntactic element of the document for comparison.)

Regarding **dependent claim 6**, Brook teaches:

> *The method of claim 1, wherein determining whether the documents are at*
>
> *least equivalent comprises determining whether the documents are structurally*
>
> *equivalent and wherein comparing the parsed documents comprises:*
>
> > *comparing sequentially occurring non-character elements in the respective*
> >
> > *documents; and*
> >
> > *disregarding character elements; and*
> >
> > *wherein determining whether the documents are equivalent comprises*
> >
> > *determining whether the non-character elements are the same.*

(See, Brook, paragraph [0004], teaching to parse documents for hierarchical tags, which

disregards character elements and defines the structure of the documents, and to

compare the hierarchical structures for validation.)

Regarding **dependent claim 7**, Brook teaches:

> *The method of claim 1, wherein determining whether the documents are at*
>
> *least equivalent comprises determining whether the documents are at least one*
>
> *of structurally equivalent and content equivalent.*

(See, Brook, paragraphs [0234]-[0238], teaching comparing the documents on an

element by element bases for purposes of validating and error checking, which is

checking for at least structural equivalence.)

Regarding **dependent claim 8**, Brook teaches:

The method of claim 7, wherein the documents are foreign-language

counterparts of one another; and

wherein comparing the parsed documents comprises comparing

sequentially occurring elements in the respective documents; and

wherein determining whether the documents are structurally equivalent

comprises determining whether the non-character elements are the same; and

further comprising determining whether the documents are content

equivalent by determining whether the character elements are different.

(Claim 8 incorporates substantially similar subject matter as claimed in claim 7 and, in

further view of the following is rejected along the same rationale. See, Brook,

paragraphs [0234]-[0238], teaching comparing the documents on an element by

element bases for purposes of validating and error checking, which is checking for

structural and content equivalencies.

The limitation that "the documents are foreign-language counterparts of one

another" is read as non-functional descriptive language. The function of the invention of

comparing markup language tags and element characters is not changed by the

identification of the language. The language of the document has no effect on the

function of the invention.)

Regarding **dependent claim 9**, Brook teaches:

> *The method of claim 8, upon determining that the documents are content*
>
> *equivalent, issuing a warning of a possible mistranslation of content in at least*
>
> *one of the documents.*

(Brook teaches the invention of claim 8, but does not expressly teach issuing a warning of a possible mistranslation of content in at least one of the documents.

Brook teaches comparing the documents on an element by element bases for purposes of validating and error checking. See, Brook, paragraphs [0234]-[0238]. It would have been obvious to one of ordinary skill in the art at the time of the invention to have included as warning to the user if the validation or error checking found that the documents were not equivalent, or, in other words, if the comparison found a validation or an error in the documents, for the obvious and beneficial purpose of notifying the user so that the error may be corrected.)

Regarding **dependent claim 10**, Brook teaches:

> *The method of claim 1, wherein the documents are XML documents*
>
> *containing XHTML.*

(See, Brook, figure 4, and paragraphs [0250]-[0254] and [0263], teaching the invention applied to "markup language documents." XHTML is a markup language document and it is implicit in the teachings that the invention could be applied to XHTML.)

Regarding **dependent claim 11**, Brook teaches:

The method of claim 1, wherein the documents are well-formed

documents having well-defined content structures identifiable by a parser parsing

the documents.

(See, Brook, paragraph [0263], teaching that the invention may be applied to well-

formed documents having well-defined content structures identifiable by a parser

parsing the documents, such as is inherent in markup language documents.)

Regarding **dependent claim 12**, Brook teaches:

The method of claim 1, further comprising:

applying one or more test expressions to at least one of the documents;

and

determining whether the one or more test expressions are satisfied.

(See, Brook, paragraph [0260], teaching an "imperfect hash process" wherein the

comparison of the document elements is done with less than all of the input. The

limited input becomes the "test expressions" specified in the claim.)

Regarding **dependent claim 13**, Brook teaches:

The method of claim 12, wherein the one or more test expressions are

XPATH queries.

(It is noted that XPATH, of XPath, was known to one of ordinary skill in the art at the

time of the invention as an XML language of addressing items in an XML document by

specifying a path through the document structure. XPath was used by XPointer and

XSLT to locate and identify XML document data. See, "Microsoft Computer Dictionary,"

Fifth Edition, Microsoft Press, 2002, definition of "XPath."

It is further noted that there is no express disclosure in the specification on how

to use an XPATH query as a test expression in the invention of claim 1. Upon

examination of the specification and claims, the Examiner believes that the inventors

intended the claim to specify a method of comparing only certain limited data within a

markup language element, and the claim will be so read for the remainder of this office

action.

Brook does not expressly teach the use of XPath to identify data in an element,

but it does teach the "imperfect hash process" wherein limited data is identified and

compared. It would have been obvious to one of ordinary skill in the art at the time of

the invention to have used an XPath query to identify data within elements for

comparison in a limited comparison, such as in the "imperfect hash process" taught by

Brook, for the obvious and beneficial purpose of specifically identifying data to be

compared. The suggestion or motivation for so modifying the teachings of Brook is that

brook teaches comparisons of partial data, and XPath was written for the purpose of

identifying limited data. One of ordinary skill in the art at the time of the invention would

be motivated to use XPath for its standard lower level purpose in conjunction with

Brook, which teaches the higher level method.)

Regarding **independent claim 14**, Brook teaches:

>   *A method of testing and validating user interface content, comprising:*

submitting a request to an application;

in response to the request, receiving a response document from the

application;

retrieving from storage a control document previously returned from the

application in response to the request;

sequentially determining each element of the response document and the

control document;

for at least some of the respective sequentially determined elements from

the respective documents, comparing the elements to one another; and

on the basis of the comparison, determining whether the elements are

equivalent.

(Brook teaches parsing two or more documents by elements and creating hash tables of

the parsed elements for efficient comparisons. The hash tables are taught as a further

step in parsing by elements for comparisons, and is taught as being preferable to a

direct comparison by elements, however, the direct comparison is also taught as the

inefficient method. See, Brook, paragraphs [0002] and [0206]-0225].

Brook teaches parsing and comparison for purposes of comparison and

validation, which is determining whether the documents are at least equivalent. See,

Brook, paragraph [0236].

Brook also teaches parsing two documents element by element and comparing

the documents for validation. See, Brook, paragraphs [0060]-[0069].

See, Brook, paragraphs [0014]-[0274], teaching comparison of a parsed document against a control document, which is taught as a Validation Reference Document (VRD).

Regarding **dependent claim 15**, Brook teaches:

> *The method of claim 14, wherein the documents contain XHTML and the elements are nodes of XHTML content of the respective documents.*

(See, Brook, figure 4, and paragraphs [0250]-[0254] and [0263], teaching the invention applied to "markup language documents." XHTML is a markup language document and it is implicit in the teachings that the invention could be applied to XHTML. Elements of and XHTML document are nodes.)

Regarding **dependent claim 16**, Brook teaches:

> *The method of claim 14, wherein at least two response documents are returned in response to the request and wherein the steps of sequentially determining each element, comparing the elements and determining whether the elements are equivalent is performed are performed for all of the documents.*

(Claim 16 incorporates substantially similar subject matter as claimed in claim 14 and, in further view of the following is rejected along the same rationale. Brook teaches the limitations of Claim 14, which teaches the limitations of claim 16, except doing the comparison on more than one document. It would have been obvious to one of ordinary skill in the art at the time of the invention that if one document may be compared, that

more documents could be compared, for the obvious and beneficial purpose of

comparing all relevant documents.)

Regarding **dependent claim 17**, Brook teaches:

>   *The method of claim 14, wherein comparing the elements to each other*
>
>   *comprises:*
>
>   *comparing sequentially occurring non-character elements in the respective*
>
>   *documents; and*
>
>   *disregarding character elements.*

(Claim 17 incorporates substantially similar subject matter as claimed in claim 6 and is

rejected along the same rationale.)

Regarding **dependent claim 18**, Brook teaches:

>   *The method of claim 14, further comprising, for at least some of the*
>
>   *respective sequentially determined elements from respective documents,*
>
>   *disregarding the elements.*

(Claim 18 incorporates substantially similar subject matter as claimed in claim 6 and is

rejected along the same rationale.)

Regarding **dependent claim 19**, Brook teaches:

>   *The method of claim 14, wherein sequentially determining the elements of*
>
>   *the documents comprises parsing the respective documents and wherein the*

documents are well-formed documents having well-defined elements identifiable

by a parser parsing the documents.

(Claim 19 incorporates substantially similar subject matter as claimed in claim 11 and is

rejected along the same rationale.)

Regarding **dependent claim 20**, Brook teaches:

The method of claim 19, wherein the parser is a SAX parser.

(Claim 20 incorporates substantially similar subject matter as claimed in claim 3 and is

rejected along the same rationale.)

Regarding **dependent claim 21**, Brook teaches:

The method of claim 14, wherein the documents are foreign-language

counterparts of one another and further comprising:

upon determining that the documents are equivalent, issuing a warning of

a possible mistranslation in at least one of the documents.

(Claim 21 incorporates substantially similar subject matter as claimed in claim 8 and is

rejected along the same rationale.)

Regarding **dependent claim 22**, Brook teaches:

The method of claim 14, wherein a first document is a control document

previously returned from an application in response to a user action, and then

captured, stored and subsequently retrieved from storage to determine a first

structural element for comparison.

(Claim 22 incorporates substantially similar subject matter as claimed in claim 2 and is

rejected along the same rationale.)

Regarding **dependent claim 23**, Brook teaches:

> *The method of claim 22, wherein a second document is a live document*
>
> *currently returned from the application in response to the user action during a*
>
> *session in which the application is being accessed.*

(See, Brook, paragraph [0007], teaching use of the invention in limited memory

hardware, wherein the document would be live.)

Regarding **dependent claim 24**, Brook teaches:

> *The method of claim 14, wherein the documents are XML documents*
>
> *containing XHTML.*

(Claim 24 incorporates substantially similar subject matter as claimed in claim 10 and is

rejected along the same rationale.)

Regarding **dependent claim 25**, Brook teaches:

> *The method of claim 14, further comprising:*
>
> *applying a test expression to the documents, the test expression being*
>
> *configured to select specific portions of the documents; and*

comparing the specific portions for equivalence.

(Claim 25 incorporates substantially similar subject matter as claimed in claim 12 and is

rejected along the same rationale.)

Regarding **dependent claim 26**, Brook teaches:

The method of claim 25, wherein sequentially determining the elements

comprises parsing the respective documents.

(Claim 26 incorporates substantially similar subject matter as claimed in claim 12 and is

rejected along the same rationale.)

Regarding **dependent claim 27**, Brook teaches:

The method of claim 14, further comprising:

applying one or more test expressions to at least one of the documents;

and

determining whether the one or more test expressions are satisfied.

(Claim 27 incorporates substantially similar subject matter as claimed in claim 12 and is

rejected along the same rationale.)

Regarding **dependent claim 28**, Brook teaches:

The method of claim 27, wherein the one or more test expressions are

XPATH queries.

(Claim 28 incorporates substantially similar subject matter as claimed in claim 13 and is

rejected along the same rationale.)

Regarding **dependent claim 29**, Brook teaches:

> *The method of claim 27, wherein at least one test expression is configured*
>
> *to determine a presence of a specific value of a structural element of the second*
>
> *document.*

(Claim 29 incorporates substantially similar subject matter as claimed in claim 13 and, in

light of the following, is rejected along the same rationale. The purpose of an XPath

query is to locate a specific value in the document.)

Regarding **dependent claim 30**, Brook teaches:

> *The method of claim 27, wherein sequentially determining the elements*
>
> *comprises parsing the respective documents:*

(Claim 30 incorporates substantially similar subject matter as claimed in claim 13 and, in

light of the following, is rejected along the same rationale. The parsing is specified in

claim 14.)

Regarding **independent claim 31**, Brook teaches:

> *A method for testing and validating content in a user interface, comprising:*
>
> *a) performing a first testing and validation technique, comprising: parsing*
>
> *a first document with a first parser;*

parsing a second document with the first parser;

comparing the parsed first document to the parsed second document;

on the basis of the comparison, determining whether the documents are
equivalent; and

b) performing a second testing and validation technique, comprising:

parsing the second document with a second parser;

applying one or more test expressions to the parsed second document;
and

determining whether the one or more test expressions are satisfied.

((Brook teaches parsing two or more documents by elements and creating hash tables

of the parsed elements for efficient comparisons. The hash tables are taught as a

further step in parsing by elements for comparisons, and is taught as being preferable to

a direct comparison by elements, however, the direct comparison is also taught as the

inefficient method. See, Brook, paragraphs [0002] and [0206]-0225].

Brook teaches parsing and comparison for purposes of comparison and

validation, which is determining whether the documents are at least equivalent. See,

Brook, paragraph [0236].

Brook does not expressly teach parsing two more documents "in tandem on an

element-by-element basis, whereby the elements of each of the documents are

sequentially parsed." See, Brook, paragraphs [0060]-[0069], teaching parsing two

documents element by element and comparing the documents for validation. Brook

also teaches use of the invention as an "event-based parser," which parses a document

element by element, rather than in its entirety first.

See specifically, Brook, paragraphs, [0227]-[0259], teaching a first test for

validation and a second test for error checking.)

Regarding **dependent claim 32**, Brook teaches:

> *The method of claim 31, wherein determining whether the documents are*
>
> *equivalent comprises determining whether the documents are structurally*
>
> *equivalent.*

(Claim 32 incorporates substantially similar subject matter as claimed in claim 7 and is

rejected along the same rationale.)

Regarding **dependent claim 33**, Brook teaches:

> *The method of claim 31, wherein determining whether the documents are*
>
> *equivalent comprises determining whether selected portions of the documents*
>
> *are equivalent in content.*

(Claim 33 incorporates substantially similar subject matter as claimed in claim 12 and is

rejected along the same rationale.)

Regarding **dependent claim 34**, Brook teaches:

> *The method of claim 31, wherein the first parser is at SAX parser.*

(Claim 34 incorporates substantially similar subject matter as claimed in claim 3 and is rejected along the same rationale.)

Regarding **dependent claim 35**, Brook teaches:

> *The method of claim 31, wherein the first parser is at SAX parser and the second parser is a DOM parser.*

(Claim 34 incorporates substantially similar subject matter as claimed in claim 3 and, further in view of the following, is rejected along the same rationale. It is noted that SAX and DOM parsers were known to one of ordinary skill in the art at the time of the invention as a SAX parser being an events driven parser, while a DOM parser was a tree based parser. Brook teaches the use of both tree and event driven parsers, and expressly teaches the use of a SAX parser and implicitly teaches the use of a DOM parser. See, Brook, paragraphs [0002]-[0008] and [0209]-[0225].)

Regarding **dependent claim 36**, Brook teaches:

> *The method of claim 31, wherein the first parser is at SAX parser, the second parser is a DOM parser and the one or more test expressions are XPATH queries.*

(Claim 36 incorporates substantially similar subject matter as claimed in claims 3 and 13 and is rejected along the same rationale.)

Regarding **independent claim 37**, Brook teaches:

A computer readable medium containing a program which, when

executed, performs an operation for testing content, comprising:

parsing a first document being well-formed and having identifiable

structures;

parsing a second document being well-formed and having identifiable

structures;

comparing the parsed first document to the parsed second document; and

on the basis of the comparison, determining whether the documents are at

least structurally equivalent.

(Claim 37 incorporates substantially similar subject matter as claimed in claim 1 and is

rejected along the same rationale.)

Regarding **dependent claim 38**, Brook teaches:

The computer readable medium of claim 37, wherein the parsing is done

by a SAX parser.

(Claim 38 incorporates substantially similar subject matter as claimed in claim 3 and is

rejected along the same rationale.)

Regarding **dependent claim 39**, Brook teaches:

The computer readable medium of claim 37, further comprising, upon

determining that the documents are not structurally equivalent, issuing a user

warning.

(Claim 39 incorporates substantially similar subject matter as claimed in claim 4 and is

rejected along the same rationale.)

Regarding **dependent claim 40**, Brook teaches:

> *The computer readable medium of claim 37, further comprising*
>
> *determining whether the documents are content equivalent.*

(Claim 40 incorporates substantially similar subject matter as claimed in claim 7 and is

rejected along the same rationale.)

Regarding **dependent claim 41**, Brook teaches:

> *The computer readable medium of claim 37, wherein comparing the*
>
> *parsed documents comprises:*
>
> > *comparing sequentially occurring non-character elements in the respective*
> >
> > *documents; and*
> >
> > *disregarding character elements; and*
> >
> > *wherein determining whether the documents are structurally equivalent*
> >
> > *comprises determining whether the non-character elements are the same.*

(Claim 41 incorporates substantially similar subject matter as claimed in claim 6 and is

rejected along the same rationale.)

Regarding **dependent claim 42**, Brook teaches:

The computer readable medium of claim 37, wherein the documents are

foreign-language counterparts of one another and wherein comparing the parsed

documents comprises:

comparing sequentially occurring elements in the respective documents;

and

wherein determining whether the documents are structurally equivalent

comprises determining whether the non-character elements are the same; and

further comprising determining whether the documents are content

equivalent by determining whether the character elements are different.

(Claim 42 incorporates substantially similar subject matter as claimed in claim 8 and is

rejected along the same rationale.)

Regarding **dependent claim 43**, Brook teaches:

The computer readable medium of claim 42, upon determining that the

documents are content equivalent, issuing a warning of a possible mistranslation

of content in at least one of the documents.

(Claim 43 incorporates substantially similar subject matter as claimed in claim 9 and is

rejected along the same rationale.)

Regarding **dependent claim 44**, Brook teaches:

The computer readable medium of claim 37, wherein the documents are

XML documents containing XHTML.

(Claim 44 incorporates substantially similar subject matter as claimed in claim 10 and is

rejected along the same rationale.)

Regarding **dependent claim 45**, Brook teaches:

>*The computer readable medium of claim 37, further comprising:*

>*applying one or more test expressions to at least one of the documents;*

and

>*determining whether the one or more test expressions are satisfied.*

(Claim 45 incorporates substantially similar subject matter as claimed in claim 12 and is

rejected along the same rationale.)

Regarding **dependent claim 46**, Brook teaches:

>*The computer readable medium of claim 45, wherein the one or more test*

>*expressions are XPATH queries.*

(Claim 46 incorporates substantially similar subject matter as claimed in claim 13 and is

rejected along the same rationale.)

Regarding **independent claim 47**, Brook teaches:

>*A computer, comprising:*

>*a user interface testing tool comprising at least a first parser and a*

comparator, and operable to perform at least a first testing technique in which the

tool is configured to:

retrieve a first document from storage, the first document having been

previously returned from an application in response to user input;

request and receive a second document from the application during a

current session in which the application is being accessed by the user interface

testing tool;

parse the first document using the first parser;

parse the second document using the first parser; compare, by the

comparator, the parsed first document to the parsed second document; and

on the basis of the comparison, determine at least whether the documents

are at least structurally equivalent.

(Claim 47 incorporates substantially similar subject matter as claimed in claim 2 and is

rejected along the same rationale.)

Regarding **dependent claim 48**, Brook teaches:

The computer of claim 47, wherein the documents are well-formed and

have identifiable structures.

(Claim 48 incorporates substantially similar subject matter as claimed in claim 11 and is

rejected along the same rationale.)

Regarding **dependent claim 49**, Brook teaches:

The computer of claim 47, wherein the parsing is done by a SAX parser.

(Claim 49 incorporates substantially similar subject matter as claimed in claim 3 and is rejected along the same rationale.)

Regarding **dependent claim 50**, Brook teaches:

> *The computer of claim 47, wherein the user interface testing tool is further configured to issue a user warning upon determining that the documents are not structurally equivalent.*

(Claim 50 incorporates substantially similar subject matter as claimed in claim 4 and is rejected along the same rationale.)

Regarding **dependent claim 51**, Brook teaches:

> *The computer of claim 47, wherein the user interface testing tool is further configured to determine whether the documents are content equivalent.*

(Claim 51 incorporates substantially similar subject matter as claimed in claim 7 and is rejected along the same rationale.)

Regarding **dependent claim 52**, Brook teaches:

> *The computer of claim 47, wherein the user interface testing tool compares the parsed documents by:*
>
> > *comparing sequentially occurring non-character elements in the respective documents; and*
> >
> > *disregarding character elements; and*

> *wherein the user interface testing tool determines whether the documents*
>
> *are structurally equivalent by determining whether the non-character elements*
>
> *are the same.*

(Claim 52 incorporates substantially similar subject matter as claimed in claim 6 and is rejected along the same rationale.)

Regarding **dependent claim 53**, Brook teaches:

> *The computer of claim 47, wherein the documents are foreign-language*
>
> *counterparts of one another and wherein the user interface testing tool compares*
>
> *the parsed documents by:*
>
> *comparing sequentially occurring elements in the respective documents;*
>
> *and*
>
> *wherein the user interface testing tool determines whether the documents*
>
> *are structurally equivalent by determining whether the non-character elements*
>
> *are the same; and*
>
> *further determines whether the documents are content equivalent by*
>
> *determining whether the character elements are different.*

(Claim 53 incorporates substantially similar subject matter as claimed in claim 8 and is rejected along the same rationale.)

Regarding **dependent claim 54**, Brook teaches:

> *The computer of claim 53, wherein the user interface testing tool is further*
>
> *configured to issue a warning of a possible mistranslation of content in at least*
>
> *one of the documents upon determining that the documents are content*
>
> *equivalent.*

(Claim 54 incorporates substantially similar subject matter as claimed in claim 9 and is

rejected along the same rationale.)

Regarding **dependent claim 55**, Brook teaches:

> *The computer of claim 47, wherein the documents are XML documents*
>
> *containing XHTML.*

(Claim 55 incorporates substantially similar subject matter as claimed in claim 10 and is

rejected along the same rationale.)

Regarding **dependent claim 56**, Brook teaches:

> *The computer of claim 47, wherein the documents are well-formed*
>
> *documents having well-defined content structures identifiable by the first parser.*

(Claim 56 incorporates substantially similar subject matter as claimed in claim 11 and is

rejected along the same rationale.)

Regarding **dependent claim 57**, Brook teaches:

> *The computer of claim 47, further comprising:*

applying one or more test expressions to at least one of the documents;

and

determining whether the one or more test expressions are satisfied.

(Claim 57 incorporates substantially similar subject matter as claimed in claim 12 and is

rejected along the same rationale.)

Regarding **dependent claim 58**, Brook teaches:

The computer of claim 57, wherein the one or more test expressions are

XPATH queries.

(Claim 58 incorporates substantially similar subject matter as claimed in claim 13 and is

rejected along the same rationale.)

Regarding **dependent claim 59**, Brook teaches:

The computer of claim 47, further comprising:

parsing the first and second documents with a second parser;

applying one or more test expressions to at least one of the documents

parsed by the second parser; and

determining whether the one or more test expressions are satisfied.

(Claim 59 incorporates substantially similar subject matter as claimed in claim 12 and is

rejected along the same rationale.)

It is noted that any citations to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. See, MPEP 2123.

(10) Response to Argument

Appellant argues that Brook do not teach parsing and comparing because the citation, upon which the Office relies, is directed towards a validation check being a more detailed form of checking syntax than well-formedness checking and checks the hierarchical relationship of the tags to see if a tag should have been nested under another and towards validating the form of one particular document, not comparing two documents to see if they are at least equivalent (pp 12 and 13).

The Office disagrees.

First, the specification explains that the documents are compared to determine whether the documents are at least structurally equivalent (p 3, paragraph block 0009) and documents are examined for structural attributes **and/or** content (p 4, paragraph block 0021). Further, claim 6 provides further evidence of what is meant by equivalence by reciting, in part, determining whether the documents are at least equivalent comprises determining whether the documents are **structurally equivalent**.

With that interpretation in mind, it should be noted that Appellant is not fully appreciating the reference as a whole. In order to validate the form of one particular

document, the particular document has to be validated against something else. In this instance, Brook teaches that the validation-checking step is performed with reference to a DTD or an XML Schema (paragraph block 0236).

Second, the Office contends that the validation checking meets the claimed parsing and comparing because Brook goes on to teach that in order to perform the validation step, DTD or XML Schema tags are first hashed in a hashing step, in order to bring the DTD/XML Schema memory representation into conformity with the hashed nature of the mark-up document which has been generated by the hash step. The validation checking step compares the mark-up document structural representation generated in the step to the structural representation of the DTD/XML Schema generated in the step, to verify correct syntactic placement of syntactic elements in the markup document, noting that the string comparisons required for this comparison are now replaced by faster and more efficient numerical comparisons, as a result of the hashing operations (paragraph block 0237). It should be noted that the Office has interpreted the hashing of Brook to meet the claimed parsing.

Consequently, by appellant's own characterization of Brook (p 13, first full paragraph), Brook teaches comparing multiple documents to determine their structural equivalence, which meets the claimed limitation is question - on the basis of the comparison, determining whether the documents are at least equivalent.

(11) Related Proceeding(s) Appendix

No decision rendered by a court or the Board is identified by the examiner in the

Related Appeals and Interferences section of this examiner's answer.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/Nathan Hillery/

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